YCS 100

Video Decoder & Encoder

FEATURES

- **Simultaneously decodes composite video into S-video, and encodes S-video into composite video**
- **Inputs: Composite video on a BNC with buffered loop-through, S-video on a 4-pin mini DIN with buffered loop-through**
- **Outputs: Composite video on a BNC, S-video on a 4-pin mini DIN**
- **Decodes composite video into S-video**
- **Encodes S-video into composite video**
- **High quality digital decoder with time base stabilization** — Broadcast-quality digital decoder eliminates jitter, dot crawl, and other decoding artifacts while also stabilizing and improving the video from older analog VCRs or worn videotapes.
- **Quad standard compatible**
- **Auto video standard detection** — Automatically detects NTSC, PAL, and SECAM format video signals for integration into systems worldwide.
- **Rack-mountable 1U, quarter rack width metal enclosure**
- **External universal power supply included, replacement part # 70-775-01**

DESCRIPTION

The Extron **YCS 100** combines a composite video to S-video decoder and an S-video to composite video encoder in a single enclosure. It automatically detects NTSC, PAL, and SECAM format video signals, and simultaneously outputs composite video and S-video to allow for recording and display at the same time. The YCS 100 is ideal for applications in conference rooms, classrooms, video production facilities, and residential entertainment systems.

The YCS 100 features a high quality digital decoder with time base stabilization to optimize performance with composite video sources, including worn or multi-generation videotapes, consumer VCRs, and other devices with unstable sync signals. For the decoder and encoder functions, the YCS 100 provides a buffered loop-through for the composite video and S-video inputs, respectively.

MODEL	VERSION DESCRIPTION	PART #
YCS 100	Video Decoder & Encoder	60-323-10

OPTIONAL ACCESSORIES	MODEL DESCRIPTION	PAGE	PART #
RSB 123	1U 3.5" Deep Basic Rack Shelf	page 857	60-604-20
RSB 126	1U 6" Deep Basic Rack Shelf	page 858	60-604-10
RSB 129	1U 9.5" Deep Basic Rack Shelf	page 859	60-604-01
MBB 100	VersaTools® Back of Rack Mounting Kit	page 856	70-367-01
PMK 350	Low Profile Multi-Product Pole Mount Kit	page 853	70-563-03

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Extron®

YCS 100

SPECIFICATIONS

NOTE: The YCS 100 includes a built-in S-video decoder and a composite video encoder. The encoder portion and the decoder portion are independent and may be used simultaneously.

VIDEO — ENCODER PORTION

Gain ..... Unity
Standards ..... NTSC 3.58, NTSC 4.43, PAL (B, G, H, I, D, N, M), SECAM (B, G, H, D, K, K1, L); autodetected

VIDEO INPUT AND LOOP THROUGH — ENCODER PORTION

Number/signal type ..... 1 S-video, 1 S-video loop-through
Connectors ..... 1 female 4-pin mini DIN (input), 1 female 4-pin mini DIN (loop-through)
Nominal level ..... 1 Vp-p for Y of S-video (including sync)
0.3 Vp-p for C of S-video
Minimum/maximum levels ..... Analog: 0.3 V to 1.5 Vp-p for Y with no offset at unity gain
Impedance ..... 75 ohms
Return loss ..... -27 dB for Y, -31 dB for C @ 5 MHz
Input coupling ..... AC coupled

VIDEO PROCESSING — ENCODER PORTION

Signal processing type ..... Analog encoding

VIDEO OUTPUT — ENCODER PORTION

Number/signal type ..... 1 composite video
Connectors ..... 1 female BNC for composite video
Nominal level ..... 1 Vp-p for composite video
Minimum/maximum levels ..... 0.3 V to 1.5 Vp-p for composite video; follows input
Impedance ..... 75 ohms
Return loss ..... -40 dB @ 3.58 MHz
DC offset ..... ±300 mV with input at 0 offset

VIDEO INPUT AND LOOP THROUGH — DECODER PORTION

Number/signal type ..... 1 composite video input, 1 composite video loop-through
Connectors ..... 1 female BNC (input), 1 female BNC (loop-through)
Nominal level ..... 1 Vp-p for composite video (including sync)
Minimum/maximum levels ..... Analog: 0.3 V to 1.5 Vp-p for composite video with no offset at unity gain
Impedance ..... 75 ohms
Return loss ..... -34 dB for composite video @ 5 MHz
Input coupling ..... Decoder input: AC coupled
Loop-through input: DC coupled

VIDEO — DECODER PORTION

Gain ..... Unity
Standards ..... NTSC 3.58, NTSC 4.43, PAL (B, G, H, I, D, N), SECAM (B, G, H, D, K, K1, L); autodetected

VIDEO PROCESSING — DECODER PORTION

Signal processing type ..... Digital decoding
Digital sampling ..... 10 bits per color, 30 bits total; 14.3 MHz sampling frequency
Colors ..... 1 billion
Decoder type ..... Adaptive 2D, 5-line digital comb filter

VIDEO OUTPUT — DECODER PORTION

Number/signal type ..... 1 S-video
Connectors ..... 2 female BNC and/or 1 female 4-pin mini DIN for S-video
Nominal level ..... 1 Vp-p for Y of S-video (including sync)
0.3 Vp-p for C of S-video
Minimum/maximum levels ..... 0.3 V to 1.5 Vp-p for Y; follows input
Impedance ..... 75 ohms
Return loss ..... -40 dB @ 3.58 MHz
DC offset ..... Y: ±300 mV with input at 0 offset
C: ±600 mV

GENERAL

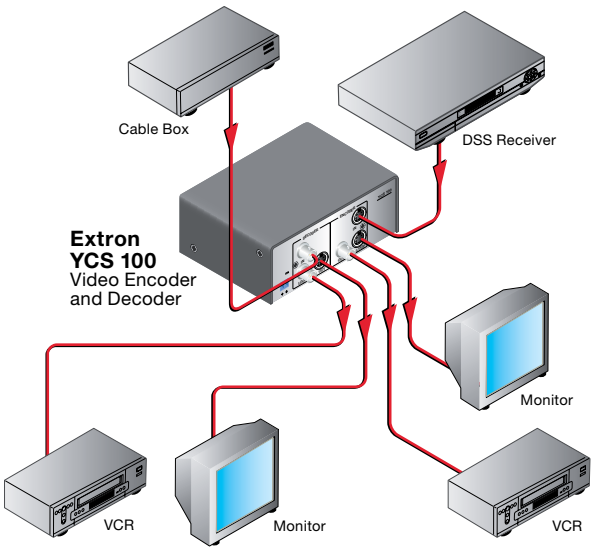
External power supply ..... 100 VAC to 240 VAC, 50/60 Hz, external, to 12 VDC, 1 A max., regulated
Power input requirements ..... 12 VDC, 0.3 A
Temperature/humidity ..... Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing
Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing

Rack mount ..... Yes, with optional 1U, 9.5 deep rack shelf, part #60-190-01 (RSU 129) or 60-604-01 (RSB 129); 1U, 6" deep rack shelf, part #60-190-10 (RSU 126) or 60-604-10 (RSB 126); or VersaTools® 1U, 3.5" deep rack shelf, part #60-190-20 (RSF 123) or 60-604-20 (RSB 123)
Above-projector mountable with optional VersaTools Mini Projector Mounting Kit, part #70-217-01 (PMK 100)
Furniture mountable with optional VersaTools Mini Under-Desk Mounting Kit, part #70-212-01 (MBU 123)
Enclosure type ..... Metal
Enclosure dimensions ..... 1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide)
(4.3 cm H x 10.9 cm W x 7.6 cm D)
(Depth excludes connectors.)
Product weight ..... 0.4 lbs (0.2 kg)
Shipping weight ..... 3 lbs (2 kg)
Vibration ..... ISTA 1A in carton (International Safe Transit Association)
Listings ..... UL, CUL
Compliances ..... CE, FCC Class A, VCCI, AS/NZS, ICES
MTBF ..... 30,000 hours
Warranty ..... 3 years parts and labor

NOTE: All nominal levels are at ±10%.

NOTE: Specifications are subject to change without notice.

Note: For complete specifications, please go to www.extron.com



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